## SUPPLEMENTARY INFORMATION

## New insights into the ORF2 capsid protein, a key player of the hepatitis E virus lifecycle

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Supplementary Figure 1: Identification of the N-terminus of the ORF2c protein. ORF2c proteins were immunoprecipitated with an anti-ORF2 antibody (4B2), denaturated and incubated or not with N-succinimidyloxycarbonylmethyl tris (2,4,6-trimethoxyphenyl) phosphonium bromide (TMPP), which binds specifically to the N-terminus of intact proteins. Proteins were resolved by SDS-PAGE, digested in-gel with trypsin or AspN and analyzed by nanoLC-MS/MS. (A) Peptide covering is highlighted in grey on the sequence. Ser<sup>102</sup> in bold corresponds to the first aa of ORF2c that was identified by TMPP labeling. (B) and (C) MS/MS spectrum of N-terminal peptides of the ORF2c protein. (B) Tryptic peptide obtained from TMPP-labeled ORF2c protein. (C) AspN peptide obtained from TMPP-labeled ORF2c protein.

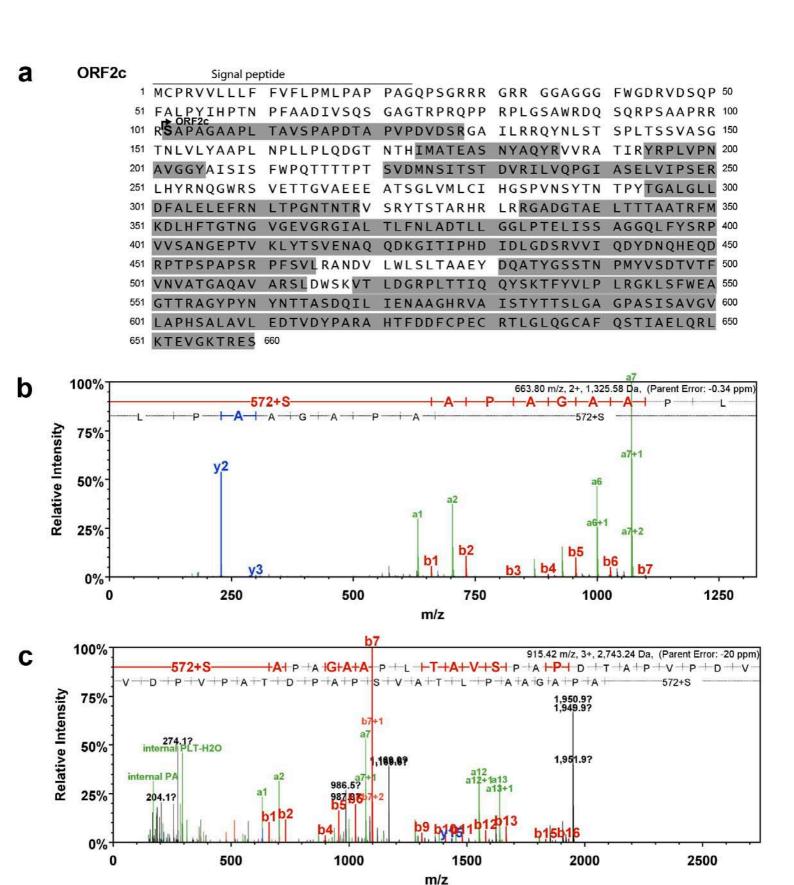
**Supplementary Figure 2: Specificity of the anti-ORF2 1E6 antibody. (a)** Detection of ORF2 protein by WB using the 1E6 antibody on supernatants and cell extracts of PLC3/HEV cells and non-transfected PLC3 cells. (b) Uncut gels are displayed.

Supplementary Figure 3: Characterization of wt and mutant ORF2 proteins by western blot (WB). For each panel showing western-blotting results, uncut gels are displayed.

Supplementary Figure 4: Impact of mutations of ORF2 protein N-glycosylation sites on antibody recognition. For each panel showing western-blotting results, uncut gels are displayed.

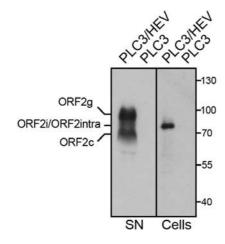
Supplementary Figure 5: Impact of mutations of N-glycosylation sites on ORF2 protein nuclear localization. For each panel showing western-blotting results, uncut gels are displayed.

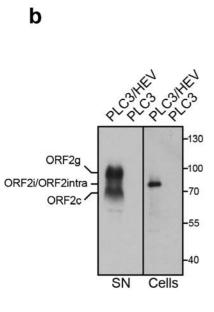
Supplementary Figure 6: Impact of mutations of ORF2 protein N-glycosylation sites on particle density. For each panel showing western-blotting results, uncut gels are displayed.

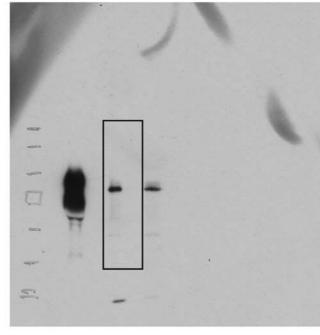


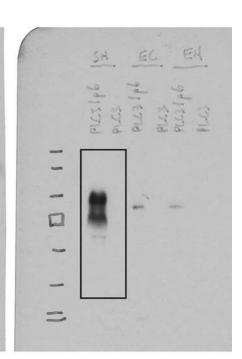
Supplementary Figure 1



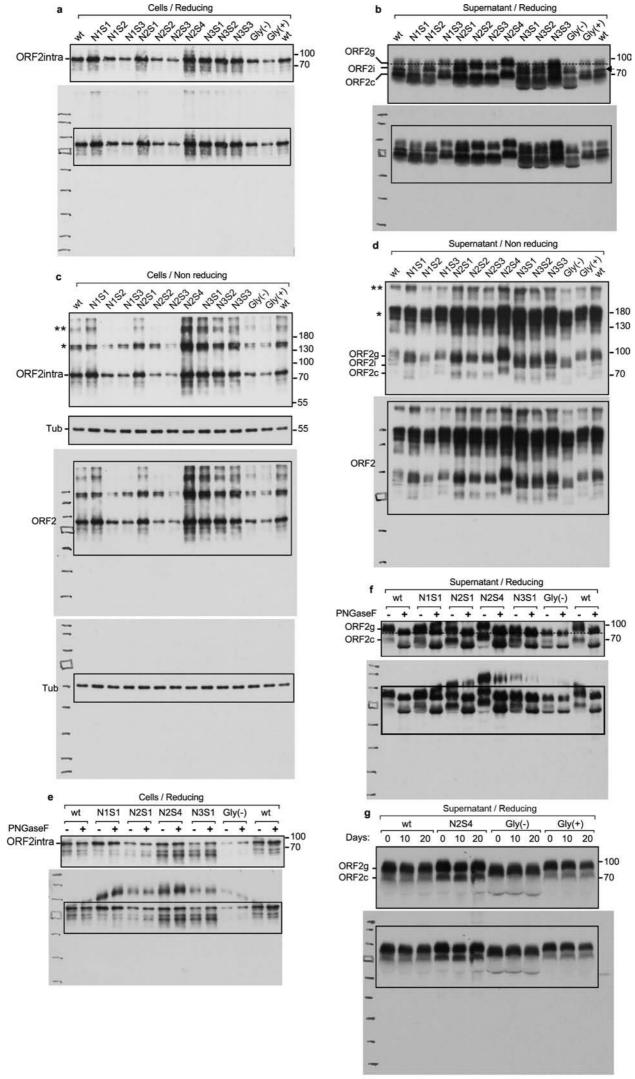




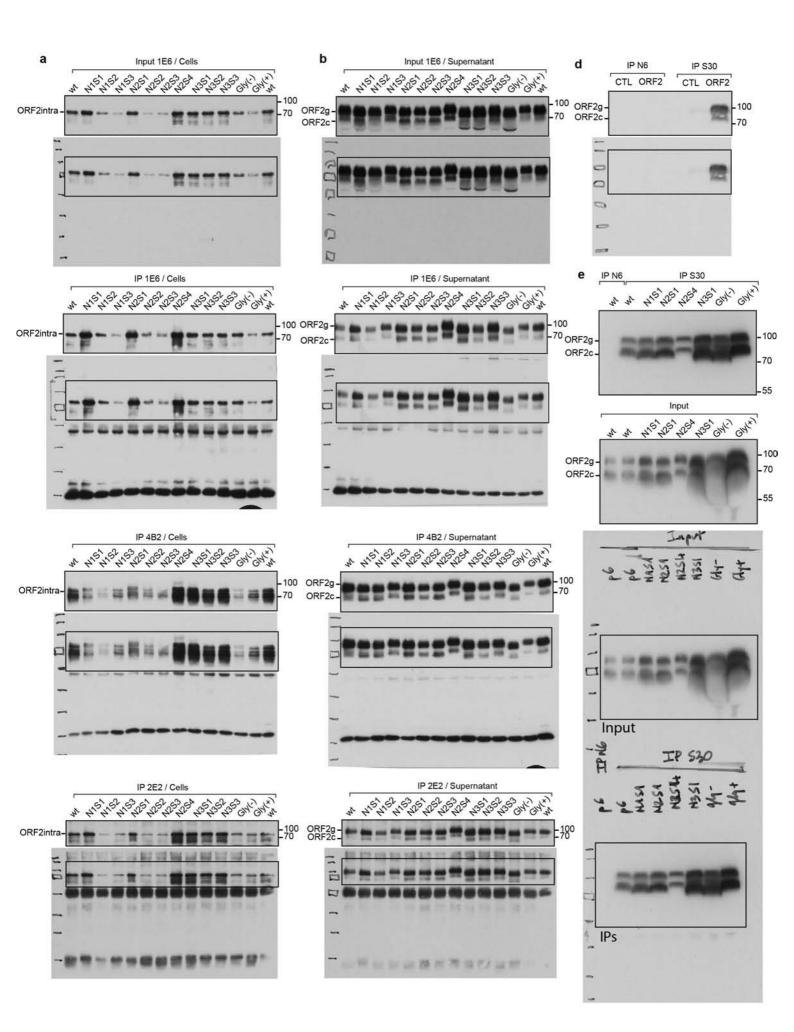


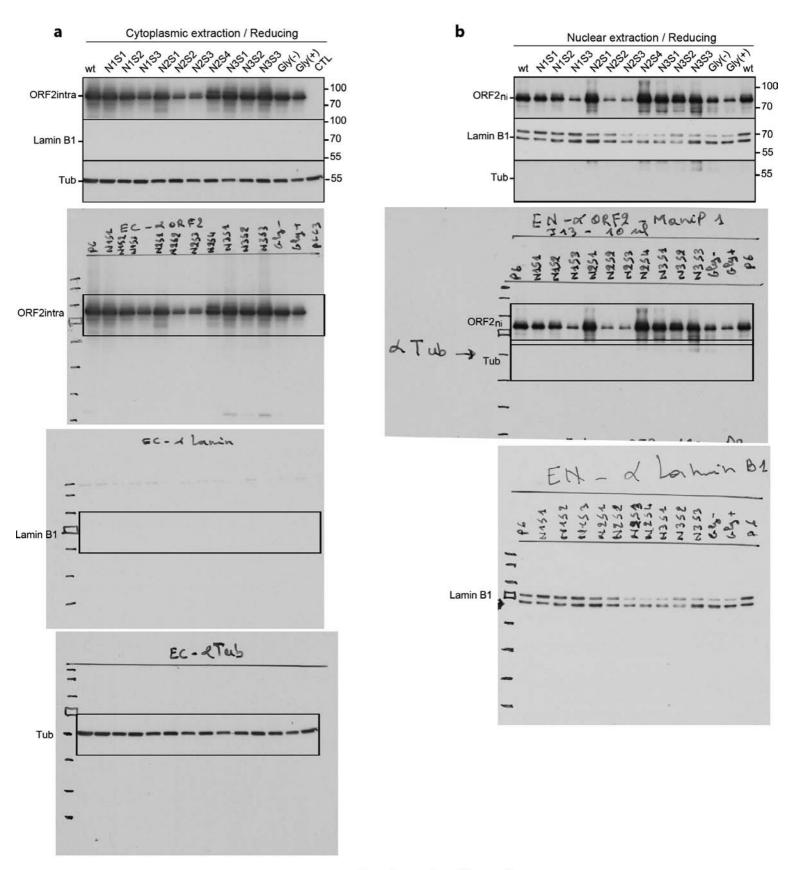


Supplementary Figure 2

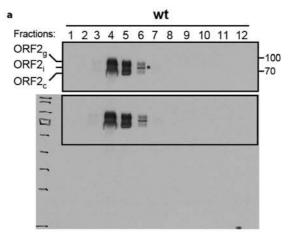


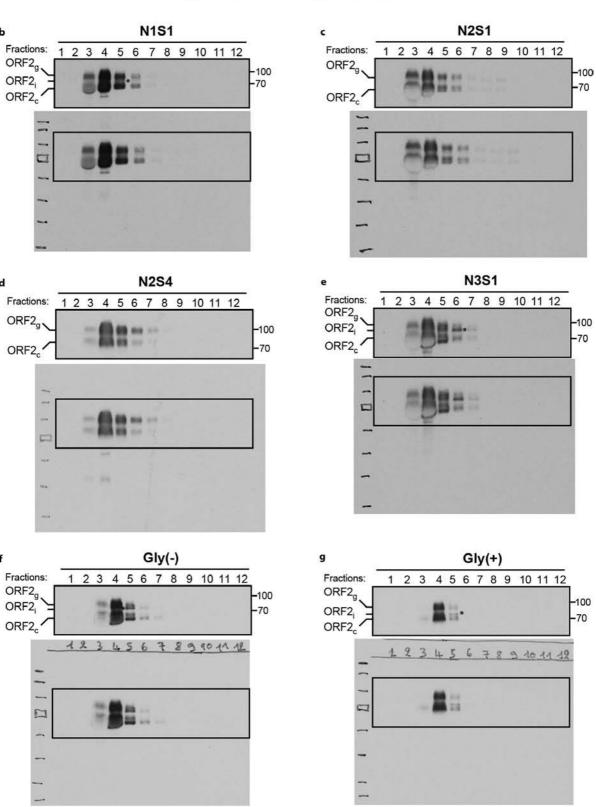
Supplementary Figure 3





Supplementary Figure 5





Supplementary Figure 6